

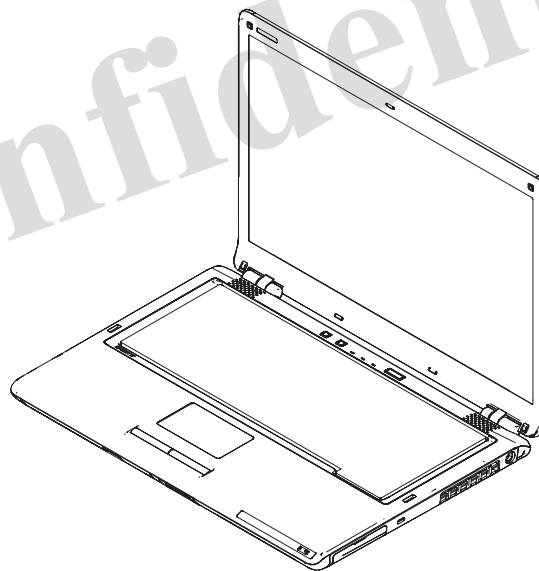
VGN-S50B/S70B/S90PS/S90S VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P VGN-S1HP/S1VP/S1XP VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP

SERVICE MANUAL

Ver. 6 2004H

Revision History

Area	Model	Lineup
Japanese	Japanese	VGN-S50B VGN-S70B VGN-S90PS* VGN-S90S*
American	US Canadian	VGN-S150 VGN-S150P VGN-S170* VGN-S170B* VGN-S170P*
	Latin	VGN-S150F [MA] VGN-S150FP [MA] VGN-S170F [MA]
European	AEP/UK	VGN-S1HP VGN-S1VP VGN-S1XP
Asian/Oceania/ South Africa	International	VGN-S16GP [MA] VGN-S18GP
	Thai	VGN-S16SP [MA] VGN-S18SP [MA]
	Korean	VGN-S16LP [MA] VGN-S18LP [MA]
	Chinese	VGN-S16C [MA] VGN-S17C [MA] VGN-S18CP [MA]
	Taiwan	VGN-S16TP [MA] VGN-S18TP [MA]



· Design and specifications are subject to change without notice.

· 本機の仕様および外観は、改良のため予告なく変更することがありますが、ご了承ください。

PERSONAL COMPUTER

SONY®

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All other names of systems, products and services in this manual are trademarks or registered trademarks of their respective owners. In this manual, the (TM) or (R) mark are not specified.

Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mis-treated. Do not disassemble, heat above 100°C (212°F) or incinerate. Dispose of used battery promptly. Keep away from children.

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, multistage or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify are as requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the \triangle mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 270°C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

**ATTENTION AU COMPOSANT AYANT
RAPPORT
À LA SÉCURITÉ!**
**LES COMPOSANTS IDENTIFIÉS PAR UNE
MARQUE \triangle SUR LES DIAGRAMMES
SCHÉMATIQUES ET LA LISTE DES PIÈCES
SONT CRITIQUES POUR LA SÉCURITÉ DE
FONCTIONNEMENT. NE REMPLACER CES
COMPOSANTS QUE PAR DES PIÈCES SONY
DONT LES NUMÉROS SONT DONNÉS
DANS CE MANUEL OU DANS LES
SUPPLÉMENTS PUBLIÉS PAR SONY.**

Confidential

VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)
VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

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History of the changes is shown as the "Revision History" at the end of this data.

変更履歴は、“Revision History”として、本データ末に記載してあります。

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VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)
VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

CHAPTER 1.

SPECIFICATIONS

1-1. Specifications

	J		J-CTO		AM				
	VGN-S70B	VGN-S50B	VGN-S90PS*	VGN-S90S*	VGN-S150P	VGN-S150	VGN-S150FP	VGN-S150F	VGN-S170F
CPU	PM-1.5GHz	Cel M-1.3GHz	PM-1.8GHz or PM-1.5GHz or Cel M-1.3GHz	PM-1.8GHz or PM-1.5GHz or Cel M-1.3GHz	PM-1.6GHz	PM-1.6GHz	PM-1.6AGHz	PM-1.6AGHz	PM-1.6AGHz
ChipSet	855PM	855PM	855PM	855PM	855PM	855PM	855PM	855PM	855PM
Graphic	M9+X (32MB)	M9+X (32MB)	M9+X(32MB) or M11-P(64MB)	M9+X(32MB) or M11-P(64MB)	M9+X(32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)
LCD	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter) or 13.3 WXGA	13.3 WXGA (Brighter) or 13.3 WXGA	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)
HDD	40GB	40GB	60GB or 40GB	60GB or 40GB	60GB	60GB	40GB	40GB	40GB
MEMORY (DDR333 uDIMM)	256MBx1	256MBx1	1GB(512x2) or 512MB(512x1) or 256MB(256x1)	1GB(512x2) or 512MB(512x1) or 256MB(256x1)	256MBx2	256MBx2	256MBx2	256MBx2	256MBx2
QUANTITY[MAX]	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB
AVAILABLE SLOT(STANDARD)	2	2	2	2	2	2	2	2	2
OPT-DRIVE	9.5 DVD-RW	9.5 DVD-RW	9.5 DVD-RW or 9.5 DVD/CD-RW	9.5 DVD-RW or 9.5 DVD/CD-RW	9.5 DVD/CD-RW	9.5 DVD/CD-RW	9.5 DVD/CD-RW	9.5 DVD/CD-RW	9.5 DVD-RW
int. Wireess LAN	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g
AC adaptor	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6
Battery	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2
Bluetooth	○	x	○ or x	○ or x	x	x	x	x	x
OS	Win XP Home	Win XP Home	XP Pro	XP Home	Win XP Pro	Win XP Home	Win XP Pro	Win XP Home	Win XP Home

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	U-CTO			EU			AO		
	VGN-S170B*	VGN-S170P*	VGN-S170*	VGN-S1XP	VGN-S1VP	VGN-S1HP	VGN-S18GP	VGN-S16GP	VGN-S18LP
CPU	PM-2.0A or PM-1.8 or PM-1.7A or PM-1.5 or Cel M-1.4	PM-2.0A or PM-1.8 or PM-1.7A or PM-1.5 or Cel M-1.4	PM-2.0A or PM-1.8 or PM-1.7A or PM-1.5 or Cel M-1.4	PM-1.7AGHz	PM-1.7AGHz	PM-1.5AGHz	PM-1.6GHz	PM-1.5GHz	PM-1.6GHz
ChipSet	855PM	855PM	855PM	855PM	855PM	855PM	855PM	855PM	855PM
Graphic	M9+X (32MB) or M11-P (64MB)	M9+X (32MB) or M11-P (64MB)	M9+X (32MB) or M11-P (64MB)	M11-P (64MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)
LCD	13.3 WXGA (Brighter) or 13.3 WXGA	13.3 WXGA (Brighter) or 13.3 WXGA	13.3 WXGA (Brighter) or 13.3 WXGA	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)
HDD	40GB or 60GB or 80GB(4.2Krpm) or 80GB(5.4Krpm)	40GB or 60GB or 80GB(4.2Krpm) or 80GB(5.4Krpm)	40GB or 60GB or 80GB(4.2Krpm) or 80GB(5.4Krpm)	60GB	60GB	40GB	60GB	40GB	60GB
MEMORY (DDR333 uDIMM)	512MBx2 or 512MBx1 or 256MBx2 or 256MBx1	512MBx2 or 512MBx1 or 256MBx2 or 256MBx1	512MBx2 or 512MBx1 or 256MBx2 or 256MBx1	512MBx1	512MBx1	512MBx1	512MBx1	256MBx1	512MBx1
QUANTITY[MAX]	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB
AVAILABLE SLOT(STANDARD)	2	2	2	2	2	2	2	2	2
OPT-DRIVE	9.5 DVD-RW or 9.5 DVD/CD-RW	9.5 DVD-RW or 9.5 DVD/CD-RW	9.5 DVD-RW or 9.5 DVD/CD-RW	9.5 DVD-RW	9.5 DVD-RW	9.5 DVD/CD-RW	9.5 DVD-RW	9.5 DVD/CD-RW	9.5 DVD-RW
int. Wireess LAN	802.11b/g or None	802.11b/g or None	802.11b/g or None	802.11b/g	802.11b/g	802.11b/g	802/11b.g	802.11b/g	802.11b/g
AC adaptor	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6
Battery	VGP-BPS2 or VGP-BPL2	VGP-BPS2 or VGP-BPL2	VGP-BPS2 or VGP-BPL2	VGP-BPS2, VGP-BPL2	VGP-BPS2, VGP-BPL2	VGP-BPS2, VGP-BPL2	VGP-BPS2, VGP-BPL2	VGP-BPS2, VGP-BPL2	VGP-BPS2, VGP-BPL2
Bluetooth	○ or x	○ or x	○ or x	○	○	○	x	x	x
OS	Win XP Pro(SMB)	Win XP Pro	Win XP Home	Win XP Pro	Win XP Pro	Win XP Pro	Win XP Pro	Win XP Pro	Win XP Pro

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- The trademarks of registered trademarks of above table, refer to page 2.
- The model that is accompanied by asterisk (*) is the CTO model.
- 本表中の商標・登録商標については、2ページをご参照ください。
- 機種名に(※)がつくものはCTOモデルです。
- 組み合わせについてはCTO Informationをご確認ください。

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VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150PS/S170/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)
VGN-S16C/S16GP/S16LP/S16SP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

	AO							
	VGN-S16LP	VGN-S18SP	VGN-S16SP	VGN-S18TP	VGN-S16TP	VGN-S18CP	VGN-S17C	VGN-S16C
CPU	PM-1.5GHz	PM-1.6GHz	PM-1.5GHz	PM-1.6GHz	PM-1.5GHz	PM-1.6GHz	PM-1.6GHz	PM-1.5GHz
ChipSet	855PM	855PM	855PM	855PM	855PM	855PM	855PM	855PM
Graphic	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)
LCD	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)
HDD	40GB	60GB	40GB	60GB	40GB	60GB	40GB	40GB
MEMORY (DDR333 uDIMM)	256MBx1	512MBx1	256MBx1	512MBx1	256MBx1	512MBx1	256MBx1	256MBx1
QUANTITY[MAX]	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB
AVAILABLE SLOT(STANDARD)	2	2	2	2	2	2	2	2
OPT-DRIVE	9.5 DVD/CD-RW	9.5 DVD-RW	9.5 DVD/CD-RW	9.5 DVD-RW	9.5 DVD/CD-RW	9.5 DVD-RW	9.5 DVD/CD-RE	9.5 DVD/CD-RW
int. Wireess LAN	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g
AC adaptor	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6
Battery	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2
Bluetooth	x	x	x	x	x	x	x	x
OS	Win XP Pro	Win XP Pro	Win XP Pro	Win XP Pro	Win XP Pro	Win XP Pro	Win XP Home	Win XP Home
	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]

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- The model that is accompanied by asterisk (*) is the CTO model.
- 本表中の商標・登録商標については、2ページをご参照ください。
- 機種名に（*）がつくものはCTOモデルです。
- 組み合わせについてはCTO Informationをご確認ください。

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VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)

VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

1-2. CTO Information

Model name:VGN-S90PS
Model number:PCG-6C1N or 6C2N
OS:Windows XP Pro
Ver.1.0

M/B	MBX-109 (M11_64) A-1072-470-A COMPLETE PWB MBX-109 (M11_64)	MBX-109 (M9_32) A-1072-469-A COMPLETE PWB MBX-109 (M9_32)	
CPU	Pen-M 1.8G 6-600-306-01 IC RH80536GC0332MSL7EN	Pen-M 1.5G 6-600-304-01 IC RH80535GC0211MSL6F9	CEL-M 1.3G 6-600-334-01 IC RH80535NC013512SL6N7
HDD	60GB A-1065-523-A ASSY HDD 60GB (-21) (H,40) (S)	40GB A-1065-524-A ASSY HDD 40GB (-21) (H,40) (S)	
LCD	13.3 WXGA (Brighter) A-1072-481-A LCD UNIT (13.3 WXGA TFT)	13.3 WXGA (Normal) A-1072-480-A LCD UNIT(13.3 WXGA TFT) NORMAL	
Memory	1GB(512Mx2) A-1072-503-Ax2 COMPLETE PWB MM-9A	512MB(512Mx1) A-1072-503-A COMPLETE PWB MM-9A	256MB A-1072-479-A COMPLETE PWB MM-11A
Opt.Drive	Combo 1-796-822-12 COMBO DRIVE (UJDA755,9.5MM)	DVD-RW 1-796-892-13 DVDRW (UJ-812,9.5MM)	
W-LAN	Available 1-761-864-23 WIRELESS LAN CARD		
Bluetooth	Available 1-805-554-11 BLUETOOTH MODULE	None	
Battery	standard A-1072-505-A BATTERY PACK BPS2 (J) (S)		
Office	2003 Personal	None	

Model name:VGN-S90S
Model number:PCG-6C1N or 6C2N
OS:Windows XP Home
Ver.1.0

M/B	MBX-109 (M11_64) A-1072-470-A COMPLETE PWB MBX-109 (M11_64)	MBX-109 (M9_32) A-1072-469-A COMPLETE PWB MBX-109 (M9_32)	
CPU	Pen-M 1.8G 6-600-306-01 IC RH80536GC0332MSL7EN	Pen-M 1.5G 6-600-304-01 IC RH80535GC0211MSL6F9	CEL-M 1.3G 6-600-334-01 IC RH80535NC013512SL6N7
HDD	60GB A-1065-523-A ASSY HDD 60GB (-21) (H,40) (S)	40GB A-1065-524-A ASSY HDD 40GB (-21) (H,40) (S)	
LCD	13.3 WXGA (Brighter) A-1072-481-A LCD UNIT (13.3 WXGA TFT)	13.3 WXGA (Normal) A-1072-480-A LCD UNIT(13.3 WXGA TFT) NORMAL	
Memory	1GB(512Mx2) A-1072-503-Ax2 COMPLETE PWB MM-9A	512MB(512Mx1) A-1072-503-A COMPLETE PWB MM-9A	256MB A-1072-479-A COMPLETE PWB MM-11A
Opt.Drive	Combo 1-796-822-12 COMBO DRIVE (UJDA755,9.5MM)	DVD-RW 1-796-892-13 DVDRW (UJ-812,9.5MM)	
W-LAN	Available 1-761-864-23 WIRELESS LAN CARD		
Bluetooth	Available 1-805-554-11 BLUETOOTH MODULE	None	
Battery	standard A-1072-505-A BATTERY PACK BPS2 (J) (S)		
Office	2003 Personal	None	

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VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)

VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

Model name:VGN-S170
Model number:PCG-6C1L,6C2L,6C3L
OS:Windows XP Home
Ver.1.0

M/B	MBX-109(M11_64) A-1072-470-A COMPLETE PWB MBX-109 (M11_64)	MBX-109(M9_32) A-1072-469-A COMPLETE PWB MBX-109 (M9_32)			
CPU	Pen-M 2.0GHz 6-706-559-01 IC RH80536GC0412MSL7EM	Pen-M 1.8GHz 6-600-306-01 IC RH80536GC0332MSL7EN	Pen-M 1.70AGHz 6-600-343-01 IC RH80536GC0292MSL7EP	Pen-M 1.5AGHz 6-600-368-01 IC RH80536GC0212MSL7GL	Cel-M 1.4GHz 6-706-572-01 IC RH80535NC017512
HDD	80GB (5400rpm) A-1062-140-A HDD_(80GB,HTSS48080M9AT00)_(S)	80GB (4200rpm) A-8117-058-A ASSY HDD 80GB (H,40) (S)	60GB A-1065-523-A ASSY HDD 60GB (-21) (H,40) (S)	40GB A-1065-524-A ASSY HDD 40GB (-21) (H,40) (S)	
LCD	13.3 WXGA (Brighter) A-1072-481-A LCD UNIT (13.3 WXGA TFT)	13.3 WXGA (Normal) A-1072-480-A LCD UNIT(13.3 WXGA TFT) NORMAL			
Memory	1GB(512Mx2) A-1072-503-Ax2 COMPLETE PWB MM-9A	512MB(256Mx2) A-1072-479-Ax2 COMPLETE PWB MM-11A	512MB A-1072-503-A COMPLETE PWB MM-9A	256MB A-1072-479-A COMPLETE PWB MM-11A	
Opt.Drive	Combo 1-796-822-12 COMBO DRIVE (UJDA755,9.5MM)	DVD-RW 1-796-892-13 DVDRW (UJ-812,9.5MM)			
W-LAN	Available 1-761-864-13 WIRELESS LAN CARD	None			
Bluetooth	802.11b/g 1-805-554-11 BLUETOOTH MODULE	None			
Battery	standard A-1072-506-A BATTERY PACK BPS2 (U) (S)	LLL A-1072-509-A BATTERY PACK BPL2 (U) (S)			

Model name:VGN-S170B
Model number:PCG-6C1L,6C2L,6C3L
OS:Windows XP Pro(SMB)
Ver.1.0

M/B	MBX-109(M11_64) A-1072-470-A COMPLETE PWB MBX-109 (M11_64)	MBX-109(M9_32) A-1072-469-A COMPLETE PWB MBX-109 (M9_32)			
CPU	Pen-M 2.0GHz 6-706-559-01 IC RH80536GC0412MSL7EM	Pen-M 1.8GHz 6-600-306-01 IC RH80536GC0332MSL7EN	Pen-M 1.70AGHz 6-600-343-01 IC RH80536GC0292MSL7EP	Pen-M 1.5AGHz 6-600-368-01 IC RH80536GC0212MSL7GL	Cel-M 1.4GHz 6-706-572-01 IC RH80535NC017512
HDD	80GB (5400rpm) A-1062-140-A HDD_(80GB,HTSS48080M9AT00)_(S)	80GB (4200rpm) A-8117-058-A ASSY HDD 80GB (H,40) (S)	60GB A-1065-523-A ASSY HDD 60GB (-21) (H,40) (S)	40GB A-1065-524-A ASSY HDD 40GB (-21) (H,40) (S)	
LCD	13.3 WXGA (Brighter) A-1072-481-A LCD UNIT (13.3 WXGA TFT)	13.3 WXGA (Normal) A-1072-480-A LCD UNIT(13.3 WXGA TFT) NORMAL			
Memory	1GB(512Mx2) A-1072-503-Ax2 COMPLETE PWB MM-9A	512MB(256Mx2) A-1072-479-Ax2 COMPLETE PWB MM-11A	512MB A-1072-503-A COMPLETE PWB MM-9A	256MB A-1072-479-A COMPLETE PWB MM-11A	
Opt.Drive	Combo 1-796-822-12 COMBO DRIVE (UJDA755,9.5MM)	DVD-RW 1-796-892-13 DVDRW (UJ-812,9.5MM)			
W-LAN	Available 1-761-864-13 WIRELESS LAN CARD	None			
Bluetooth	802.11b/g 1-805-554-11 BLUETOOTH MODULE	None			
Battery	standard A-1072-506-A BATTERY PACK BPS2 (U) (S)	LLL A-1072-509-A BATTERY PACK BPL2 (U) (S)			

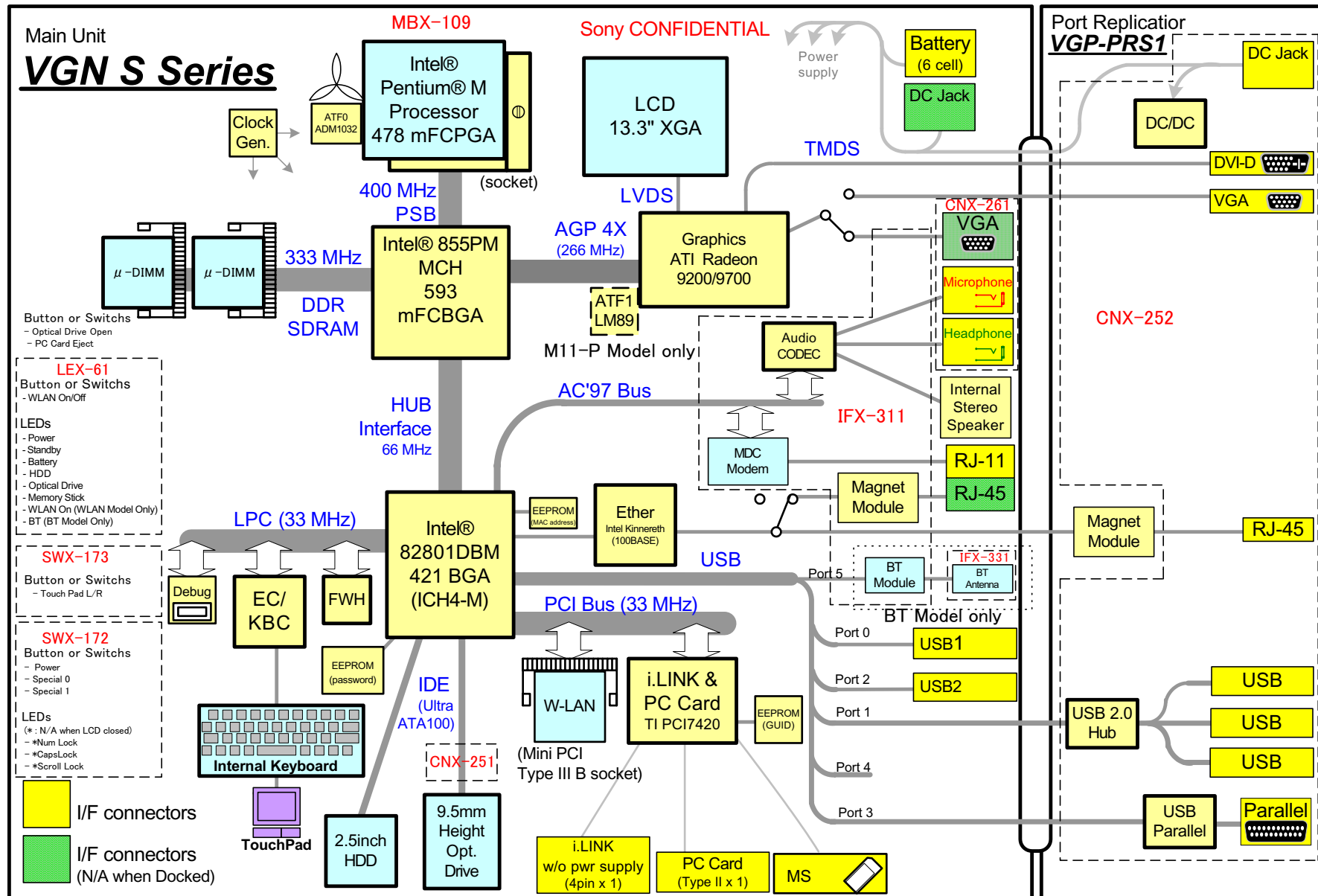
Model name:VGN-S170P
Model number:PCG-6C1L,6C2L,6C3L
OS:Windows XP Pro
Ver.1.0

M/B	MBX-109(M11_64) A-1072-470-A COMPLETE PWB MBX-109 (M11_64)	MBX-109(M9_32) A-1072-469-A COMPLETE PWB MBX-109 (M9_32)			
CPU	Pen-M 2.0GHz 6-706-559-01 IC RH80536GC0412MSL7EM	Pen-M 1.8GHz 6-600-306-01 IC RH80536GC0332MSL7EN	Pen-M 1.70AGHz 6-600-343-01 IC RH80536GC0292MSL7EP	Pen-M 1.5AGHz 6-600-368-01 IC RH80536GC0212MSL7GL	Cel-M 1.4GHz 6-706-572-01 IC RH80535NC017512
HDD	80GB (5400rpm) A-1062-140-A HDD_(80GB,HTSS48080M9AT00)_(S)	80GB (4200rpm) A-8117-058-A ASSY HDD 80GB (H,40) (S)	60GB A-1065-523-A ASSY HDD 60GB (-21) (H,40) (S)	40GB A-1065-524-A ASSY HDD 40GB (-21) (H,40) (S)	
LCD	13.3 WXGA (Brighter) A-1072-481-A LCD UNIT (13.3 WXGA TFT)	13.3 WXGA (Normal) A-1072-480-A LCD UNIT(13.3 WXGA TFT) NORMAL			
Memory	1GB(512Mx2) A-1072-503-Ax2 COMPLETE PWB MM-9A	512MB(256Mx2) A-1072-479-Ax2 COMPLETE PWB MM-11A	512MB A-1072-503-A COMPLETE PWB MM-9A	256MB A-1072-479-A COMPLETE PWB MM-11A	
Opt.Drive	Combo 1-796-822-12 COMBO DRIVE (UJDA755,9.5MM)	DVD-RW 1-796-892-13 DVDRW (UJ-812,9.5MM)			
W-LAN	Available 1-761-864-13 WIRELESS LAN CARD	None			
Bluetooth	802.11b/g 1-805-554-11 BLUETOOTH MODULE	None			
Battery	standard A-1072-506-A BATTERY PACK BPS2 (U) (S)	LLL A-1072-509-A BATTERY PACK BPL2 (U) (S)			

Confidential

VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150PS/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)
VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

CHAPTER 2. BLOCK DIAGRAM



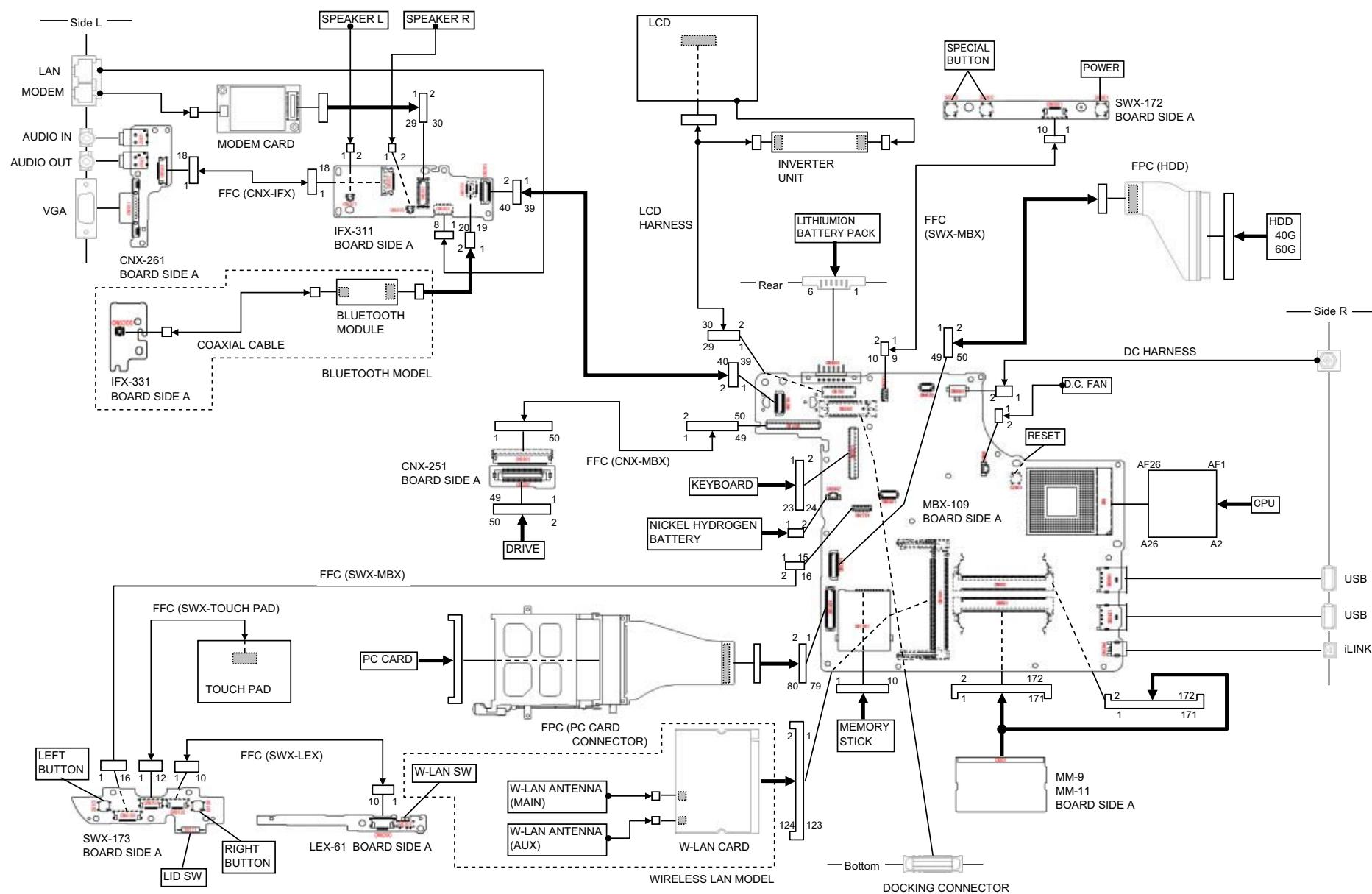
Confidential

VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150PS/S170/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)

VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

CHAPTER 3.

FRAME HARNESS DIAGRAM



Confidential

VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)
VGN-S16C/S16GP/S16LP/S16SP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

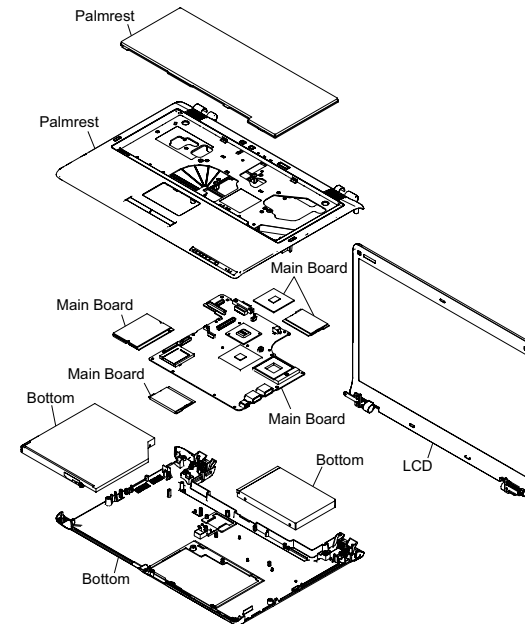
CHAPTER 4.

EXPLODED VIEWS AND PARTS LIST

- The parts list is compiled by blocks of a palmrest and bottom etc.
The sections of the parts list are different depending on the model.
Please refer to list of contents shown in the below.

- 分解図と部品表は、パームレスト、ボトムなどのブロックごとに分かれています。機種によって部品表のセクションが異なりますので、詳細は右下の一覧表を参照してください。

Section	Page
Palmrest	
P-1	4-2
Main Board	
M-1	4-4
Bottom	
B-1	4-6
LCD	
L-1, 13.3-inch WXGA (Brighter)	4-8
L-2, 13.3-inch WXGA	4-10
Accessory	
A-1	4-12






NOTE:



- Items marked *** are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- When two or more parts are shown, use the part described first as the main part.
- The parts marked "\$" are the High Value Modules (HVM).
- The parts marked "#" are the parts on which barcode label is attached. For the barcode label, refer to CHAPTER 5.
- The parts marked "&" are the "Customer Replaceable Parts (CRP)" that can be replaced by Field Customer Support.
Especially the parts with the "<&" mark require the special attention to use them. Here fore, check first whether the desired part is one of the targetted parts of the Customer Replaceable Parts (CRP), or the non-targetted parts by referring to the exploded view.

【使用上の注意】

- *印の部品は常備在庫しておりません。
- 図面番号のない部品は供給しません。
- 併記部品の場合、上部記載部品をメイン部品として使用してください。
- 部品名称の前に\$印のついた部品は、High Value Module (HVM) です。
- 商品名称の前に#印のついた部品は、バーコードラベル貼付部品です。バーコードラベルについてはCHAPTER 5を参照してください。
- 部品名称の前に&印のついた部品は、お客様窓口などでも交換可能なCustomer Replaceable Part (CRP) です。
特に<&のついた部品は、使い分けが必要な部品ですので、分解図でCustomer Replaceable Parts対象部品か、対象外部品かを必ず御確認ください。

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

印の部品、または印付きの点線で囲まれた部品は、安全性を維持するために重要な部品です。従って交換時は、必ず指定の部品を使用して下さい。

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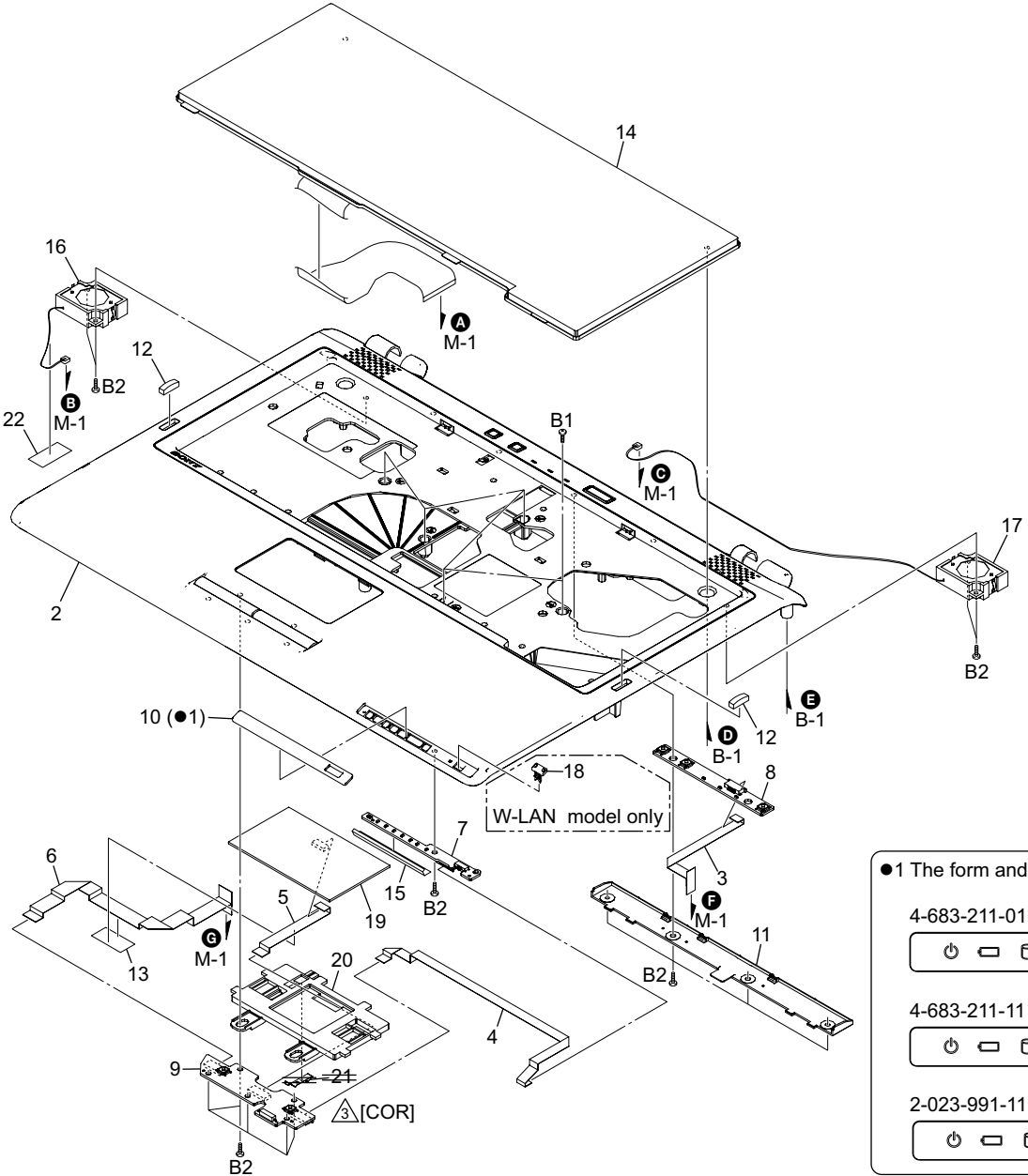
		Palmrest	Main Board	Bottom	LCD	Accessory
J	S70B	P-1	M-1	B-1	L-1	A-1
	S50B	P-1	M-1	B-1	L-1	A-1
	S90PS*	P-1	M-1	B-1	L-1, 2	A-1
	S90S*	P-1	M-1	B-1	L-1, 2	A-1
AM	S150P	P-1	M-1	B-1	L-1	A-1
	S150	P-1	M-1	B-1	L-1	A-1
	S170*	P-1	M-1	B-1	L-1, 2	A-1
	S170B*	P-1	M-1	B-1	L-1, 2	A-1
	S170P*	P-1	M-1	B-1	L-1, 2	A-1
	S150FP	P-1	M-1	B-1	L-1	A-1
	S150F	P-1	M-1	B-1	L-1	A-1
EU	S1XP	P-1	M-1	B-1	L-1	A-1
	S1VP	P-1	M-1	B-1	L-1	A-1
	S1HP	P-1	M-1	B-1	L-1	A-1
AO	S18GP	P-1	M-1	B-1	L-1	A-1
	S16GP	P-1	M-1	B-1	L-1	A-1
	S18LP	P-1	M-1	B-1	L-1	A-1
	S16LP	P-1	M-1	B-1	L-1	A-1
	S18SP	P-1	M-1	B-1	L-1	A-1
	S16SP	P-1	M-1	B-1	L-1	A-1
	S18TP	P-1	M-1	B-1	L-1	A-1
	S16TP	P-1	M-1	B-1	L-1	A-1
	S18CP	P-1	M-1	B-1	L-1	A-1
	S17C	P-1	M-1	B-1	L-1	A-1
	S16C	P-1	M-1	B-1	L-1	A-1

* : CTO model

Confidential

VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)
VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

P-1. Palmrest



●1 The form and the printing of LED cover differs for every part number.

4-683-211-01 COVER LED

4-683-211-11 COVER LED

2-023-991-11 COVER (LED) (W/O) (WL)

Confidential

VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)
VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

P-1. Palmrest

Ref. No.	Part No.	Description
2	X-4626-772-2	ASSY PALMREST
3	1-829-196-11	CABLE, FLEXIBLE FLAT (10PIN)
4	1-829-198-11	CABLE, FLEXIBLE FLAT (10PIN)
5	1-829-195-11	CABLE, FLEXIBLE FLAT (12PIN)
6	1-829-197-11	CABLE, FLEXIBLE FLAT (16PIN)
7	A-1072-475-A \$	COMPLETE PWB LEX-61 (S)
8	A-1072-476-A \$	COMPLETE PWB SWX-172 (S)
9	A-1072-477-A \$	COMPLETE PWB SWX-173 (S)
11	4-683-212-01	COVER PALM
12	4-654-440-22	CUSHION (PALM)
13	4-662-881-02	CUSHION, KEY BOARD
15	2-148-163-02	SHEET LED OTHER
16	1-825-846-11	SPEAKER WITH BOX (L)
17	1-825-846-21	SPEAKER WITH BOX (R)
19	1-796-958-11	TOUCH PAD
20	4-683-209-02	HOLDER TP <
21	4-683-210-01	PLATE TP GND △ [DEL]
22	4-672-493-01	COVER (SC)
B1	4-672-834-71	SCREW, +B EG GRIP
B2	4-676-936-01	+SCREW,O2 +SPECIAL HEAD SELF S

△ [COR] X-4626-773-2 ASSY HOLDER TP

			J				AM				EU			AO													
			S70B	S50B	S90PS*	S90S*	S150P	S170*	S70B*	S170P*	S150FP	S170F	S1XP	S1VP	S1HP	S18GP	S16GP	S18LP	S16LP	S18SP	S16SP	S18TP	S16TP	S18CP	S17C	S16C	
	Ref.No.	Part No.	Description																								
	10	4-683-211-01	COVER LED																								
		4-683-211-11	COVER LED																								
		2-023-991-01	COVER (LED) (W/O) (WL)																								
△ [MA]	14	1-478-713-12	#																								
		1-478-713-22	#																								
		1-478-716-72	#																								
		1-478-716-12	#																								
		1-478-716-22	#																								
		1-478-716-32	#																								
		1-478-716-42	#																								
		1-478-716-52	#																								
		1-478-716-62	#																								
		1-478-716-82	#																								
		1-478-716-92	#																								
		1-478-713-32	#																								
		1-478-713-42	#																								
	△ [MA] △ [MA]		1-478-713-52	#																							
18		4-683-214-02	SWITCH WL																								

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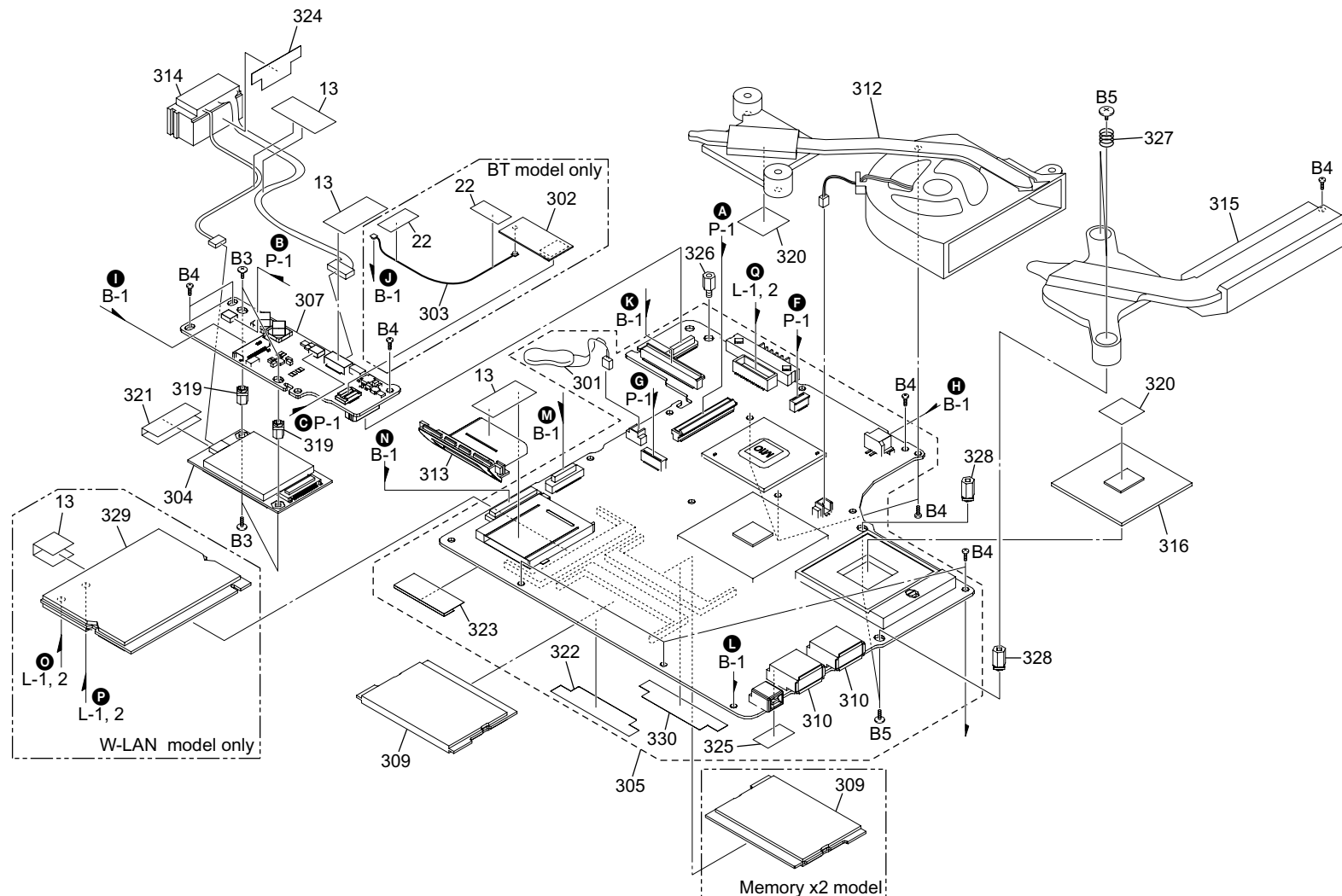
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- This parts list contains two different types of parts.
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- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

M-1.Main Board



Confidential

VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)
VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

M-1.Main Board

Ref. No.	Part No.	Description
13	4-662-881-02	CUSHION, KEY BOARD
22	4-672-493-01	COVER (SC)
301	1-756-038-21	BATTERY, NICKEL HYDROGEN
304	1-761-606-14	CARD, MODEM
307	A-1072-473-A	COMPLETE PWB IFX-311 (S)
310	1-794-548-21	CONNECTOR, USB(A)
312	1-787-166-12	D.C. FAN
313	4-683-176-01	ESCUTCHEON MS
314	1-962-758-11	HARNESS, RJ-45/11
315	4-683-233-01	HEATSINK UNIT
319	4-655-326-01	OFF, STAND
320	2-023-990-01	SHEET (THERMAL)
321	2-059-468-01	SHEET MDC
322	4-677-165-01	SHEET MEMORY
323	2-109-082-01	SHEET MS
324	2-109-080-01	SHEET RJ-CON
325	2-059-469-01	SHEET USB
326	4-651-989-51	SPACER (MBX)
327	2-102-944-01	SPRING HEATSINK
328	2-050-130-01	STAND (OFF)
330	2-148-340-01	CAUTION (LABEL) (MEMORY)
B3	4-672-836-01	SCREW ,M2 SPECIAL HEAD,EG GRIP
B4	4-672-834-51	SCREW, +B EG GRIP
B5	2-050-159-01	M2 SPECIAL HEAD D7,T1

			J		AM							EU		AO													
Ref.No.	Part No.	Description	S70B	S50B	S90PS*	S90S*	S150P	S170*	S170B*	S170P*	S150FP	S170F	S1XP	S1VP	S1HP	S18GP	S18LP	S18LP	S18SP	S18TP	S16TP	S18CP	S17C	S16C			
302	1-805-554-11	BLUETOOTH MODULE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
303	1-829-369-11	CABLE, COAXIAL (WITH U.F.L CON	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
305	A-1072-469-A	COMPLETE MBX109 (M9_32)(S)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	A-1072-470-A	COMPLETE MBX109 (M11_64)(S)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
309	A-1072-479-A	COMPLETE PWB MM-11A (S)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	A-1072-503-A	COMPLETE PWB MM-9A (S)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
316	6-600-304-01	IC RH80535GC0211MSL6F9	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	6-600-302-01	IC RH80535GC0251MSL6FA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	6-600-334-01	IC RH80535NC013512SL6N7	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	6-600-368-01	IC RH80536GC0212MSL7GL	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	6-600-343-01	IC RH80536GC0292MSL7EP	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	6-600-306-01	IC RH80536GC0332MSL7EN	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	6-600-355-01	IC RH80536GC0252MSL7EG	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	6-706-559-01	IC RH80536GC0412MSL7EM	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	6-706-572-01	IC RH80535NC017512	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
329	1-761-864-14	WIRELESS LAN CARD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	1-761-864-23	WIRELESS LAN CARD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	1-761-864-33	WIRELESS LAN CARD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			

B-1. Bottom

Ref. No.	Part No.	Description
503	X-4626-768-2	ASSY ESCUTCHEON L
505	X-4626-767-2	ASSY HOUSING BOTTOM
506	X-4626-769-2	& ASSY LID DIMM
507	2-024-006-01	BRACKET DC JACK
* 508	4-683-189-02	BRACKET HDD
* 509	4-683-190-01	BRACKET KENJINGTON
* 510	4-683-231-01	BRACKET OPT L
* 511	4-683-232-01	BRACKET OPT R
* 512	4-683-191-02	BRACKET PCCARD
* 513	4-683-192-01	BRACKET VGA
514	1-829-199-11	CABLE, FLEXIBLE FLAT (18PIN)
515	1-829-200-11	CABLE, FLEXIBLE FLAT (50PIN)
517	A-1072-471-A \$	COMPLETE PWB CNX-251 (S)
518	A-1072-472-A \$	COMPLETE PWB CNX-261 (S)
519	1-818-398-11	CONNECTOR, FPC WITH PC CARD

520	4-683-193-01	COVER DOCK HOLE C <	
521	4-683-194-01	COVER DOCK HOLE L <	
522	4-683-195-01	COVER DOCK HOLE R <	
523	4-683-175-02	DOOR DOCK CONN <	△ [DEL]
524	4-683-196-01	ESCUTCHEON R	

526	4-683-197-01	& FOOT	
527	1-962-849-11	HARNESS (DC JACK WITH 2P)	
528	4-683-177-01	HINGE STOPPER L <	
529	2-026-254-01	HINGE STOPPER R <	△ [DEL]
530	1-862-745-11	PWB, FLEXIBLE PRINT (HDD)	

531	4-683-188-01	RUBBER DOOR MODEM	
532	4-683-186-01	RUBBER DOOR USB	
533	2-023-589-01	SHEET BOTTOM	
534	2-023-591-01	SHEET HDD	
535	2-059-467-01	SHEET OPT	

536	2-109-079-01	TAPE FERRITE △ [DEL]	
537	4-659-711-12	SHEET (BOSS)	
539	1-694-760-21	JACK, SMALL TYPE	
540	1-694-760-41	JACK, SMALL TYPE	
542	4-659-711-02	SHEET (BOSS)	

B1	4-672-834-71	& SCREW, +B EG GRIP	
B4	4-672-834-51	SCREW, +B EG GRIP	
B6	4-674-716-01	SCREW (NO.4-40) (UNC)	
B7	4-671-538-01	SCREW(M2X4), SPECIAL HEAD	
B8	4-672-839-01	HEAD, M3 FLAT	

B9	4-673-648-01	& GRIP, M2 (+B) (EG)	
B10	2-050-180-01	+SCREW, O2 +SPECIAL HEAD	

Ref. No.	Part No.	Description	J				AM				EU				AO			
			S70B	S50B	S90PS*	S90S*	S150P	S170*	S170B*	S170P*	S150FP	S170F	S1XP	S1HP	S18GP	S16GP	S18LP	S16SP
501	X-4626-776-2	ASSY BEZEL OPT M	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	X-2021-034-2	ASSY BEZEL OPT W	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
504	A-1062-140-A	\$ # HDD (80GB, HTS548080M9AT00) (S)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	A-1065-503-A	\$ # HDD (40GB, IC25N040ATMR04) (PWB)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	A-1065-523-A	\$ # ASSY HDD 60GB (-21) (H,40) (S)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	A-1065-524-A	\$ # ASSY HDD 40GB (-21) (H,40) (S)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	A-8117-058-A	\$ # ASSY HDD 80GB (H,40) (S)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
516	1-796-822-12	\$ # COMBO DRIVE (UJDA755 9.5MM)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	1-796-892-13	\$ # DVD RW (UJ-B12 9.5MM)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
538	A-1072-474-A	\$ COMPLETE PWB IFX-331 (S)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
541	2-178-741-01	SHEET 35X25	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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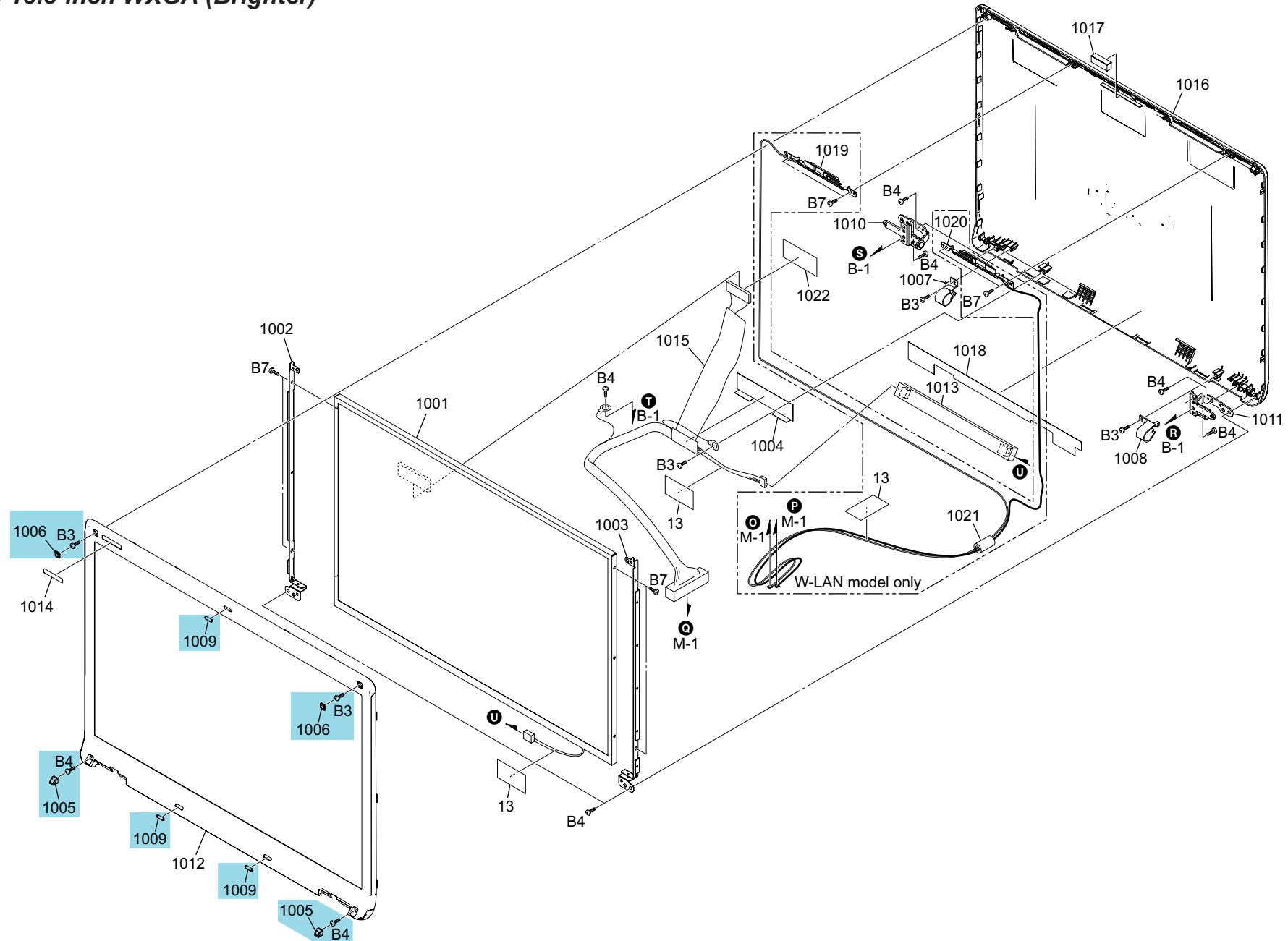
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L-1. LCD 13.3-inch WXGA (Brighter)



L-1. LCD 13.3-inch WXGA (Brighter)

Ref. No.	Part No.	Description
13	4-662-881-02	CUSHION, KEY BOARD
1001	A-1072-481-A	\$ # LCD UNIT (13.3 WXGA TFT)
* 1002	4-683-218-01	BRACKET LCD L
* 1003	4-683-219-01	BRACKET LCD R
1004	4-673-031-01	COPPER TAPE(LCD)
1005	4-683-220-01	& COVER DISPLAY SCREW LO
1006	4-683-221-01	& COVER DISPLAY SCREW UP
1007	4-683-222-01	COVER HINGE L
1008	4-683-223-01	COVER HINGE R
1009	4-683-224-01	& CUSHION BEZEL
1010	4-683-225-02	HINGE L
1011	4-683-226-02	HINGE R
1012	4-683-217-02	HOUSING BEZEL
1015	1-962-761-11	LCD HARNESS
1016	A-1072-525-A	\$ ASSY DISPLAY(S)
1017	2-024-668-01	MAGNET (LID)
1018	2-067-394-01	SHEET CABLE WLL
1019	1-754-331-22	ANTENNA (2.4/5GHZ FOR LEFT)
1020	1-754-331-12	ANTENNA (2.4/5GHZ FOR RIGHT)
1021	1-400-255-11	FERRITE CORE
1022	-	FILAMENT TAPE 12X30
B3	4-672-836-01	<&> SCREW, M2 SPECIAL HEAD, EG GRIP
B4	4-672-834-51	<&> SCREW, +B EG GRIP
B7	4-671-538-01	SCREW(M2X4), SPECIAL HEAD

			J				AM				EU			AO											
			S70B	S50B	S90PS*	S90S*	S150P	S150	S170*	S170B*	S150FP	S150F	S170F	S1XP	S1HP	S16GP	S16GP	S16LP	S16LP	S16SP	S16TP	S16TP	S16CP	S17C	S16C
Ref.No.	Part No.	Description																							
1013	1-477-753-11	INVERTER UNIT	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	1-478-283-11	INVERTER UNIT	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1014	2-103-533-01	LABEL ID (JCTO/BTO)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	2-103-533-11	LABEL ID (JCTO/BTO)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	2-103-534-01	LABEL ID	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	2-103-534-11	LABEL ID	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	2-103-534-21	LABEL ID	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	2-103-534-31	LABEL ID	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	2-103-534-41	LABEL ID	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	2-103-534-51	LABEL ID	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	2-103-534-61	LABEL ID	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
△ (MA)	2-103-535-01	LABEL ID (U)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
△ (MA)	2-103-535-11	LABEL ID (U)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
△ (MA)	2-103-535-21	LABEL ID (U)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	2-103-535-31	LABEL ID (U)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	2-103-535-41	LABEL ID (U)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	2-103-535-51	LABEL ID (U)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
△ (MA)	2-103-536-01	LABEL ID (C)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
△ (MA)	2-103-536-11	LABEL ID (C)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
△ (MA)	2-103-536-21	LABEL ID (C)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	2-103-537-01	LABEL ID (I)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
△ (MA)	2-103-537-11	LABEL ID (I)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
△ (MA)	2-103-537-21	LABEL ID (I)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
△ (MA)	2-103-537-31	LABEL ID (I)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
△ (MA)	2-103-537-41	LABEL ID (I)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
△ (MA)	2-103-537-51	LABEL ID (I)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
△ (MA)	2-103-537-61	LABEL ID (I)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
△ (MA)	2-103-537-71	LABEL ID (I)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

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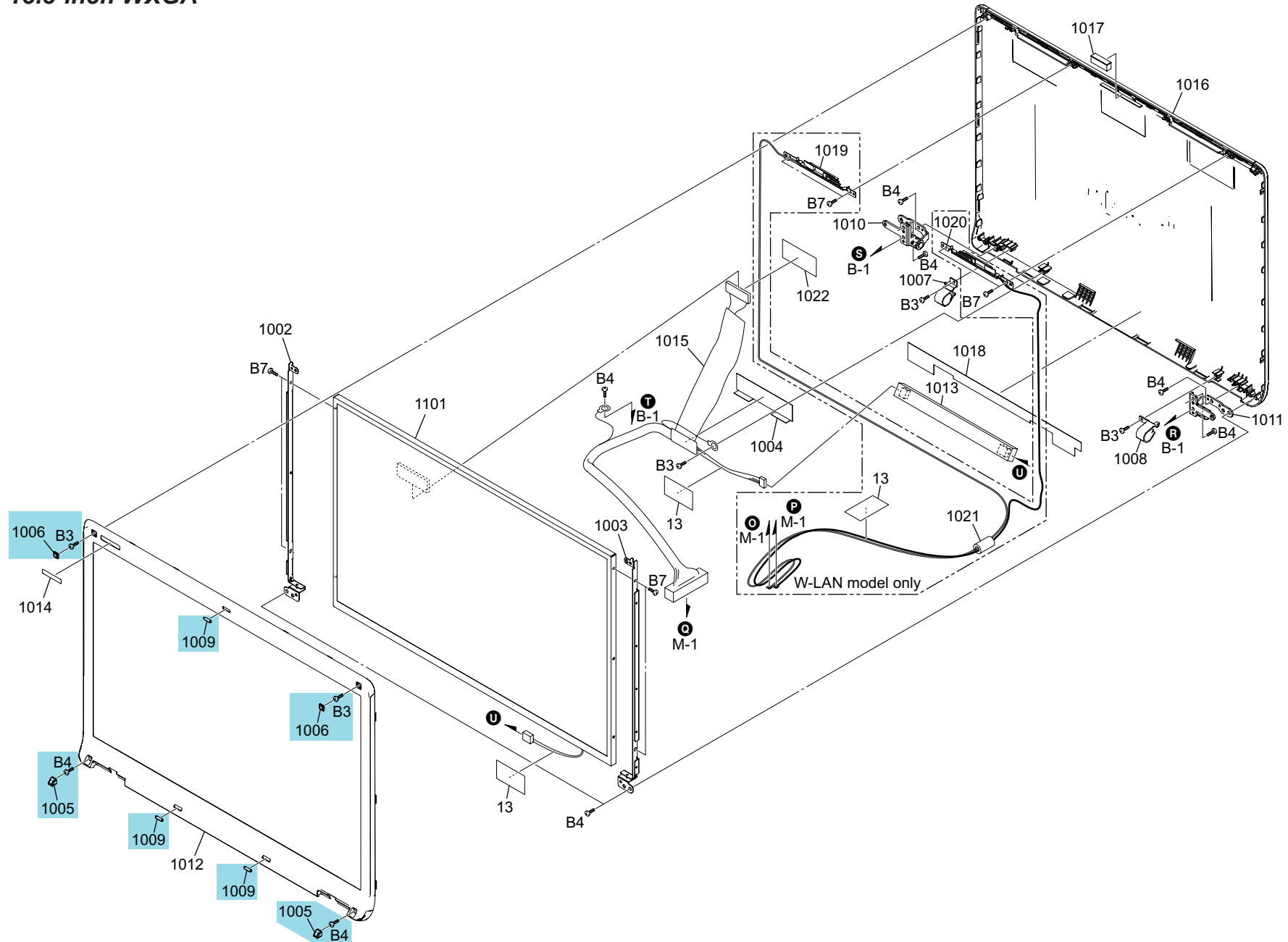
△ (MA)

<

• This parts list contains two different types of parts.
The first type is the parts that are common to all models.
The other type is the parts that are different depending on each model.

• この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

L-2. LCD 13.3-inch WXGA



Confidential

VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)
VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

L-2. LCD 13.3-inch WXGA

Ref. No.	Part No.	Description
13	4-662-881-02	CUSHION, KEY BOARD
* 1002	4-683-218-01	BRACKET LCD L
* 1003	4-683-219-01	BRACKET LCD R
1004	4-673-031-01	COPPER TAPE(LCD)
1005	4-683-220-01	& COVER DISPLAY SCREW LO
1006	4-683-221-01	& COVER DISPLAY SCREW UP
1007	4-683-222-01	COVER HINGE L
1008	4-683-223-01	COVER HINGE R
1009	4-683-224-01	& CUSHION BEZEL
1010	4-683-225-02	HINGE L
1011	4-683-226-02	HINGE R
1012	4-683-217-02	HOUSING BEZEL
1015	1-962-761-11	LCD HARNESS
1016	A-1072-525-A	\$ ASSY DISPLAY(S)
1017	2-024-668-01	MAGNET (LID)
1018	2-067-394-01	SHEET CABLE WLL
1019	1-754-331-22	ANTENNA (2.4/5GHZ FOR LEFT)
1020	1-754-331-12	ANTENNA (2.4/5GHZ FOR RIGHT)
1021	1-400-255-11	FERRITE CORE
1022	-	FILAMENT TAPE 12X30
1101	A-1072-480-A	\$ # LCD UNIT (13.3 WXGA TFT) NORMAL
B3	4-672-836-01	<&> SCREW ,M2 SPECIAL HEAD,EG GRIP
B4	4-672-834-51	<&> SCREW, +B EG GRIP
B7	4-671-538-01	SCREW(M2X4), SPECIAL HEAD

Ref. No.	Part No.	Description	J				AM			
			S90PS*	S90S*	S170*	S170B*	S170P*	S170B*	S170P*	
1013	1-477-753-11	INVERTER UNIT								
	1-476-285-11	INVERTER UNIT								
1014	2-103-533-01	LABEL ID (JCTO/BTO)								
	2-103-533-11	LABEL ID (JCTO/BTO)								
	2-103-535-31	LABEL ID (U)								
	2-103-535-41	LABEL ID (U)								
	2-103-535-51	LABEL ID (U)								

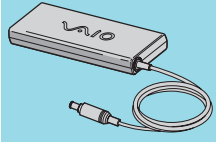
- This parts list contains two different types of parts.
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Confidential

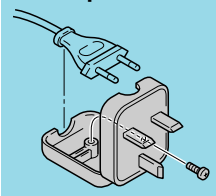
VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)
VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

A-1. Accessories

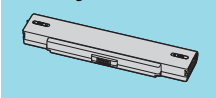
2001
AC Adaptor



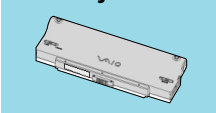
2002
Conversion Plug
3P Adaptor



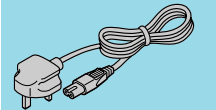
2003
Battery



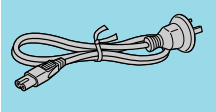
2004
L Battery



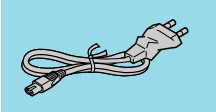
2005
AC Power Cord



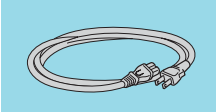
2006
Power Cord



2007
Power Cord

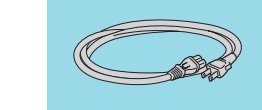


2008
Power Cord

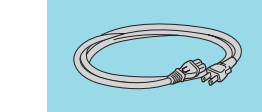


△ [MA]

2009
Power Cord

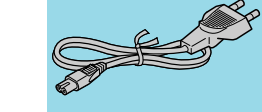


2010
Power Cord



△ [MA]

2011
Power Cord



Ref. No. Part No. Description
△ 2001 1-477-749-52 \$ & ADAPTOR, AC

			J		AM								EU		AO										
			S70B	S50B	S90PS*	S90S*	S150P	S170*	S170B*	S170F	S150FP	S170F	S1XP	S1VP	S1HP	S18GP	S18LP	S16LP	S18SP	S16SP	S18TP	S16TP	S18CP	S17C	S16C
Ref.No.	Part No.	Description																							
△	2002	1-770-019-12 & (UK)...ADAPTOR, CONVERSION PLUG 3P																							
△	2003	A-1072-505-A \$ & BATTERY PACK BPS2 (J) (S)																							
△	-	A-1072-506-A \$ & BATTERY PACK BPS2 (U) (S)																							
△	-	A-1072-507-A \$ & BATTERY PACK BPS2 (E) (S)																							
△	2004	A-1072-509-A \$ & BATTERY PACK BPL2 (U) (S)																							
△	2005	1-823-935-51 & CORD, AC POWER																							
△	2006	1-555-074-32 & CORD, POWER																							
△	2007	1-575-131-61 & CORD, POWER																							
△	2008	1-757-562-21 & CORD, POWER																							
△ [MA]	2009	1-782-476-22 & CORD, POWER																							
△	2010	1-790-732-32 & CORD, POWER																							
△ [MA]	2011	1-823-947-32 & POWER-SUPPLY CORD																							
-	2-059-851-01	GETTING STARTED, PRO																							
-	2-059-850-11	(UK/EFTA/EC/Switzerland)...HW SPECS, PRO																							
-	2-059-850-21	(German/Switzerland)...HW SPECS, PRO																							
-	2-059-850-31	(Belgium/French/Switzerland)...HW SPECS, PRO																							
-	2-059-850-41	(Italian)...HW SPECS, PRO																							
-	2-059-850-51	(Spanish)...HW SPECS, PRO																							
-	2-059-850-61	(EFTA/Belgium)...HW SPECS, PRO																							
-	2-059-850-71	(EFTA)...HW SPECS, PRO																							
-	2-025-264-01	MANUAL (XP), INSTRUCTION																							
-	2-102-956-11	MANUAL (XP), INSTRUCTION																							
△ [MA]	2-102-956-21	MANUAL (XP), INSTRUCTION																							
△ [MA]	2-102-956-41	MANUAL (XP), INSTRUCTION																							
△ [MA]	2-102-957-31	MANUAL (XP), INSTRUCTION																							
-	1-816-429-12	(UK)...PHONE PLUG (GB)																							
-	2-055-463-01	QUICK START, 2880 UCTO (SD)																							
△ [MA]	-	2-055-462-01	QUICK START, 2880L (SD)																						
-	2-050-186-01	QUICK START, 2880 U (D)																							
-	2-102-834-01	(Switzerland)...MULTI MS WORKS COA (C)																							

• This parts list contains two different types of parts.

• This parts list contains two different types of parts.
The first type is the parts that are common to all models.
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Confidential

VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)
VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

CHAPTER 5.

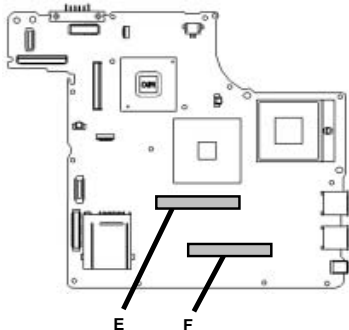
OTHER

5-1. The Barcode Label

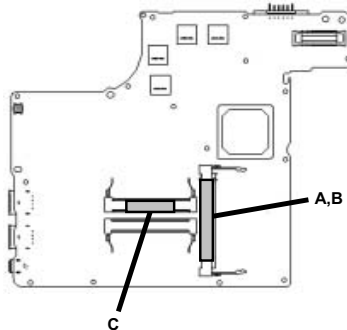
The hatched portion of the barcode is used as the repair data.

バーコードラベルの網掛け部は、修理データとして使用いたします。

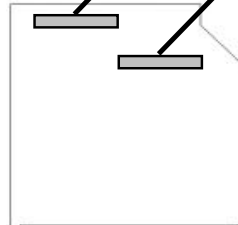
[MBX-109 Board]
(Side A)



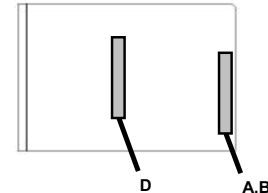
[MBX-109 Board]
(Side B)



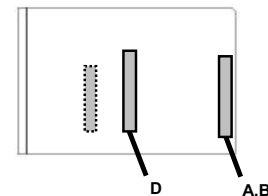
[Drive]
(Top)



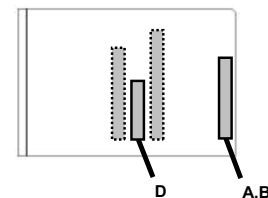
[HDD (TOSHIBA)]
(Top)



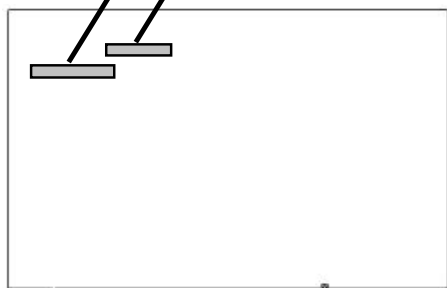
[HDD (HITACHI)]
(Top)



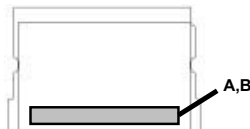
[HDD (HITACHI / IBM)]
(Top)



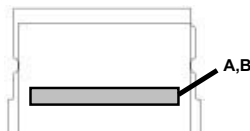
[LCD Unit]
(Rear)



[MM-9 Board]
(Side A)



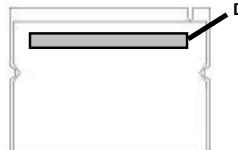
[MM-11 Board]
(Side A)



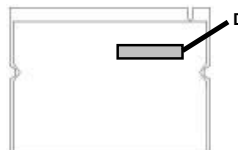
[MODEM Card]



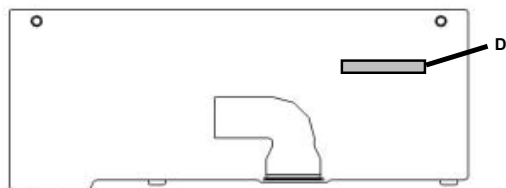
[W-LAN Card (intel)]



[W-LAN Card (ambit)]



[Keyboard Unit]
(Rear)



A : Part No.
B : Serial No.
C : Revision No.
D : Maker Barcode
E : Global User ID (iLink)
F : Mac Address

Confidential

VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)
VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

5-2. Replacing the CPU

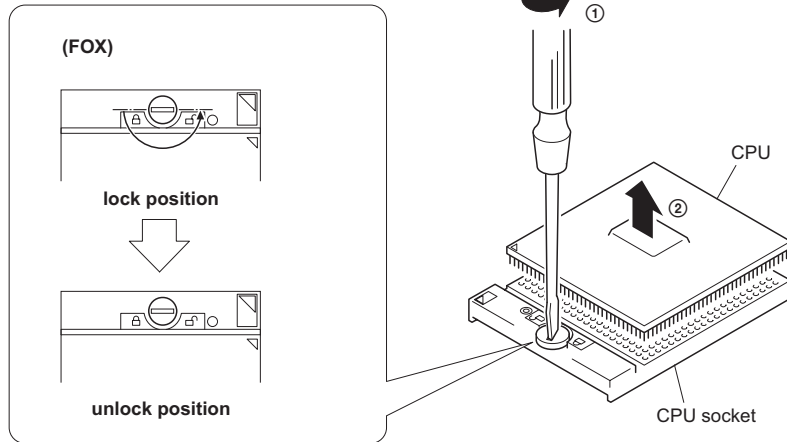
Note: We have two kinds of CPU for this set, and either of them is used.

Two kinds of CPU have differences in the lock position and the unlock position.

1. Socket configuration 1

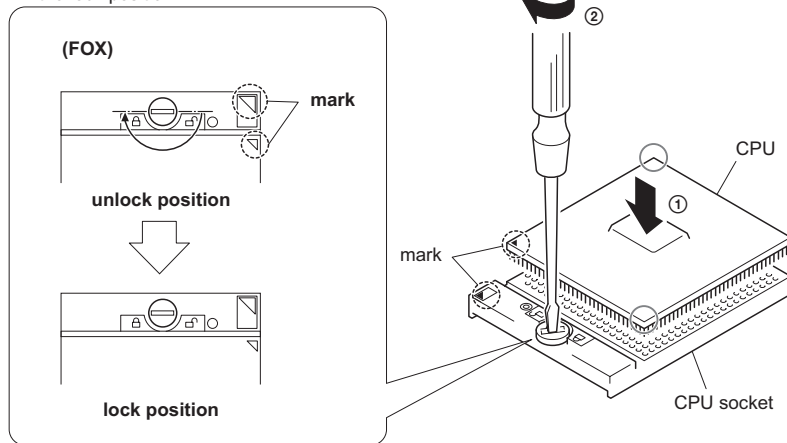
1. How to remove the CPU

- ① Rotate the lock with a flat-blade screwdriver toward the unlock position shown in the figure.
- ② Remove up the CPU.



2. How to install the CPU

- ① Position the mark on the CPU to the mark on the CPU socket and put in all pins to the holes on the CPU socket.
- ② Pressing two corners marked with ○ in the figure, rotate the lock with a flat-blade screwdriver toward the lock position.

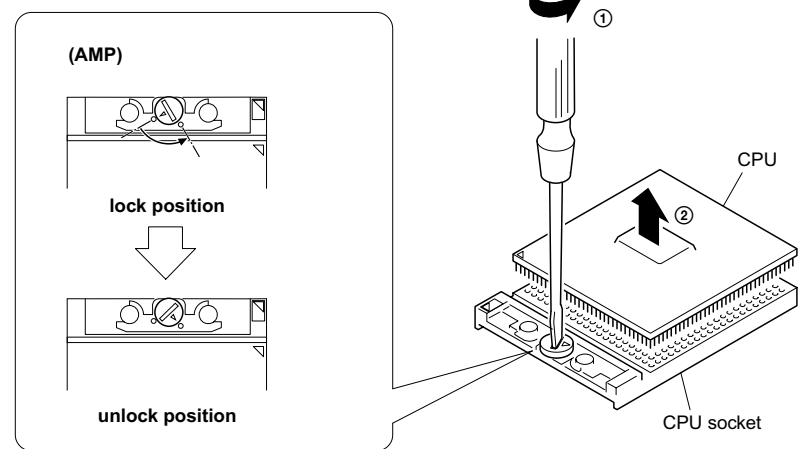


Note: Lock the CPU properly, or operation becomes unstable.

2. Socket configuration 2

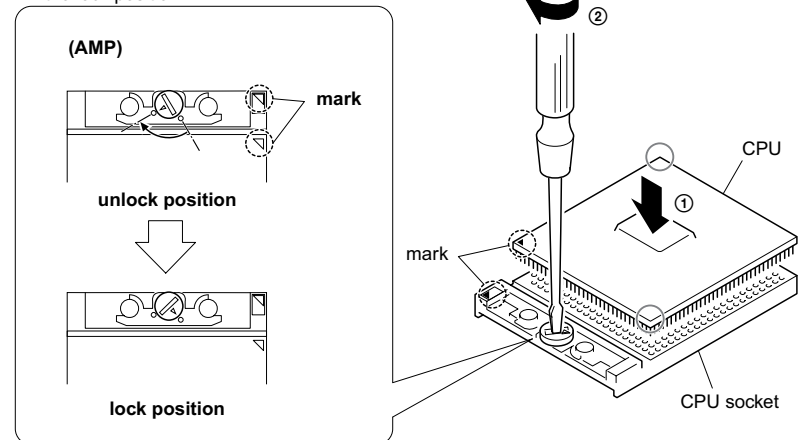
1. How to remove the CPU

- ① Rotate the lock with a flat-blade screwdriver toward the unlock position shown in the figure.
- ② Remove up the CPU.



2. How to install the CPU

- ① Position the mark on the CPU to the mark on the CPU socket and put in all pins to the holes on the CPU socket.
- ② Pressing two corners marked with ○ in the figure, rotate the lock with a flat-blade screwdriver toward the lock position.



Note: Lock the CPU properly, or operation becomes unstable.

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VGN-S50B/S70B/S90PS/S90S (J)
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VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)




VGN-S50B/S70B/S90PS/S90S (J)

VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P (AM)

VGN-S1HP/S1VP/S1XP (EU)

VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

List of VGN S Series (As of August, 2004)

Service Manual Part No.	Model Name			
	J	AM	EU	AO
9-876-369-XX	VGN-S50B	VGN-S150	VGN-S1HP	VGN-S16C
	VGN-S70B	VGN-S150F	VGN-S1VP	VGN-S16GP
	VGN-S90PS*	VGN-S150FP	VGN-S1XP	VGN-S16LP
	VGN-S90S*	VGN-S150P		VGN-S16SP
		VGN-S170*		VGN-S16TP 
		VGN-S170B*		VGN-S17C
		VGN-S170F		VGN-S18CP
		VGN-S170P*		VGN-S18GP
				VGN-S18LP
				VGN-S18SP
				VGN-S18TP

* : CTO Model

 : Additional Models

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Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver. 1	2004.06.25	First Edition	
-02	Ver. 2	2004.07.05	△ ₁ Front Page (Model Lineup), Page 1-1 to 1-2, Page 4-1, Page 4-3, Page 4-5, Page 4-7, Page 4-9, Page 4-12, Back Cover	N2004_074AK
-03	Ver. 3	2004.07.20	△ ₂ Front Page (Model Lineup), Page 1-2, Page 4-1, Page 4-3, Page 4-5, Page 4-7, Page 4-9, Page 4-12, Back Cover	N2004_081AK
-04	Ver. 4	2004.07.22	△ ₃ Page 4-2 to 4-3, Page 4-6 to 4-7	N2004_089CK
-05	Ver. 5	2004.08.02	△ ₄ Front Page (Model Lineup), Page 1-2, Page 4-1, Page 4-3, Page 4-5, Page 4-7, Page 4-9, Page 4-12, Back Cover	N2004_091AK
-06	Ver. 6	2004.08.19	△ ₅ Front Page (Model Lineup), Page 1-2, Page 4-1, Page 4-3, Page 4-5, Page 4-7, Page 4-9, Page 4-12, Back Cover	N2004_099AK
<Remarks>				

[Confidential]

VGN-S50B/S70B/S90PS/S90S (J)

VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P (AM)

VGN-S1HP/S1VP/S1XP (EU)

VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)